

## Green Diode Laser

### Abstract of the Disclosure

A green diode laser includes a tubular laser casing, a heat sink sealedly mounted at the laser casing, a green laser chip including a semiconductor chip supported by the heat sink for producing a laser beam, a lasing medium supported within the laser casing to communicate with the semiconductor chip, and an intracavity frequency doubler mounted to the lasing medium, an IR blocking filter inclinedly and sealedly mounted at the laser casing to optically communicate with an output facet, and a photodiode supported within the laser casing at a position that when the laser beam exits the output facet, the IR blocking filter reflects a portion of the laser beam towards the photodiode such that the photodiode is adapted for detecting the laser beam from the IR blocking filter as a feedback for controlling a power output of the green laser chip.